

AUMT 1319 Automotive Engine Repair 2-4-3 - [Download Syllabus](#) - [Schedule Locations](#)

Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, and disassembly, repair, and reassembly of the engine. Prerequisites: AUMT 2305.

AUMT 1405 Intro. to Automotive Technology 3-3-4 - [Download Syllabus](#) - [Schedule Locations](#)

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance.

AUMT 1407 Automotive Electrical Systems 2-7-4 [Download Syllabus](#) - [Schedule Locations](#)

An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of batteries, charging and starting systems, and electrical accessories. Emphasis on electrical schematic diagrams and service manuals. Prerequisite: AUMT 1405 and 2305.

AUMT 1410 Automotive Brake Systems 2-6-4 - [Download Syllabus](#) - [Schedule Locations](#)

Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. Prerequisite: AUMT 1405.

AUMT 1416 Automotive Suspension and Steering Systems 2-6-4 - [Download Syllabus](#) - [Schedule Locations](#)

Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures and tire and wheel service. Prerequisite: AUMT 1405.

AUMT 1445 Automotive Climate Control Systems 2-6-4 - [Download Syllabus](#) - [Schedule Locations](#)

Diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. Prerequisites: AUMT 1407.

AUMT 1472 Automotive Computer Systems 2-7-4 - [Download Syllabus](#) - [Schedule Locations](#)

This course provides the student with a working knowledge of automotive computer systems. It includes principles of operation, components and function, tools and test equipment, diagnosis, and service and repair of automotive computerized systems. Prerequisites: AUMT 1407.

AUMT 2305 Automotive Engine Theory 2-2-3 - [Download Syllabus](#) - [Schedule Locations](#)

Fundamentals of engine operation and diagnosis including lubrication and cooling systems. Emphasis on identification of components, measurements, inspections, and repair methods. Prerequisite: AUMT 1405.

AUMT 2337 Automotive Electronics 3-3-4 - [Download Syllabus](#) - [Schedule Locations](#)

Study of electronic principles applied to microcomputers and communication systems. Includes digital fundamentals, and use of electronic test equipment. Prerequisites: AUMT 1407..

AUMT 2413 Automotive Drive Train and Axles 2-6-4 - [Download Syllabus](#) - [Schedule Locations](#)

A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on the diagnosis and repair. Prerequisite: AUMT 1405.

AUMT 2417 Automotive Engine Performance Analysis I 2-7-4 - [Download Syllabus](#) - [Schedule Locations](#)

Theory, operation, diagnosis, and repair of basic engine dynamics, ignition systems, and fuel delivery systems. Use of basic engine performance diagnostic equipment. Prerequisites: AUMT 2337.

AUMT 2425 Automotive Automatic Transmission and Transaxle 2-6-4 - [Download Syllabus](#) - [Schedule Locations](#)

A study of the operation, hydraulic principles, and related circuits of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and proper repair techniques. May be taught with manufacturer specific instructions. Prerequisite: AUMT 2413.

AUMT 2434 Automotive Engine Performance Analysis II 2-7-4 - [Download Syllabus](#) - [Schedule Locations](#)

Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. Prerequisites: AUMT 2417.